

Section II
Soil and Site Information

Building Site Development
Spink County, South Dakota

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Aa: Aastad-----	85	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.61 0.10	Not limited	
Ab: Aastad-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.61 0.10	Not limited	
Hamerly-----	35	Very limited Frost action Low strength Shrink-swell	1.00 0.78 0.50	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Not limited	
Ad: Aastad-----	60	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.61 0.10	Not limited	
Tonka-----	30	Very limited Depth to saturated zone Frost action Low strength Shrink-swell Ponding	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Cutbanks cave	1.00 1.00 0.10	Very limited Depth to saturated zone Ponding	1.00 1.00
Ae: Aberdeen-----	55	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Not limited	
Nahon-----	35	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Very limited Sodium content Droughty	1.00 0.97

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ah: Aberdeen-----	55	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Not limited	
Nahon-----	35	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Very limited Sodium content Droughty	1.00 0.97
An: Aberdeen-----	45	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Not limited	
Nahon-----	25	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Very limited Sodium content Droughty	1.00 0.97
Heil-----	20	Very limited Frost action Shrink-swell Depth to saturated zone Low strength Ponding	1.00 1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Cutbanks cave Ponding Too clayey	1.00 1.00 1.00 1.00 0.72	Very limited Droughty Depth to saturated zone Sodium content Ponding	1.00 1.00 1.00 1.00
Ao: Aberdeen-----	45	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Not limited	
Nahon-----	25	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Very limited Sodium content Droughty	1.00 0.97

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Heil-----	20	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Droughty	1.00
		Shrink-swell	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Ponding	1.00	Sodium content	1.00
		Low strength	1.00	Too clayey	0.72	Ponding	1.00
		Ponding	1.00				
At: Aquents, Loamy-----	90	Very limited Ponding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Cutbanks cave	1.00		
		Shrink-swell	0.50				
BaC: Beadle-----	80	Very limited Shrink-swell	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Low strength	1.00				
		Frost action	0.50				
BdA: Beadle-----	50	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Low strength	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
Dudley-----	35	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Very limited Sodium content	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10	Droughty	0.96
		Frost action	0.50	Too clayey	0.03		
BeA: Beadle-----	60	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Low strength	1.00	Cutbanks cave	0.10		
		Frost action	0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Stickney-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
BeB: Beadle-----	60	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Low strength	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
Stickney-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
BfA: Beadle-----	60	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.15	Somewhat limited Content of large stones	0.32
		Low strength	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
Stickney-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
BfB: Beadle-----	60	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Low strength	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
Stickney-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bg: Bearden-----	85	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Not limited	
		Low strength Shrink-swell	1.00 0.50	Cutbanks cave	0.10		
Bk: Bearden-----	60	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Not limited	
		Low strength Shrink-swell	1.00 0.50	Cutbanks cave	0.10		
Tonka-----	30	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Ponding	1.00	Ponding	1.00
		Low strength Shrink-swell Ponding	1.00 1.00 1.00	Cutbanks cave	0.10		
Bo: Beotia-----	90	Very limited Low strength Shrink-swell	1.00 0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	
		Frost action	0.50				
Br: Beotia-----	50	Very limited Low strength Shrink-swell	1.00 0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	
		Frost action	0.50				
Rondell-----	35	Very limited Frost action Low strength	1.00 1.00	Very limited Cutbanks cave Depth to saturated zone	1.00 0.47	Not limited	
		Shrink-swell	0.50				
Bs: Beotia-----	60	Very limited Low strength Shrink-swell	1.00 0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.47	Not limited	
		Frost action	0.50				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Winship-----	30	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Not limited	
		Low strength	1.00	Cutbanks cave	0.10		
Bt: Beotia-----	60	Very limited Low strength	1.00	Very limited Cutbanks cave	1.00	Not limited	
		Shrink-swell	0.50	Depth to saturated zone	0.47		
		Frost action	0.50				
Winship-----	30	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Not limited	
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50				
Bu: Bon-----	90	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
		Flooding	0.40	Depth to saturated zone	0.61		
Bw: Bon-----	85	Very limited Frost action	1.00	Very limited Cutbanks cave	1.00	Very limited Flooding	1.00
		Flooding	1.00	Flooding	0.80		
				Depth to saturated zone	0.61		
BxD: Buse-----	55	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	0.78	Cutbanks cave	0.10		
		Shrink-swell	0.50				
		Frost action	0.50				
Barnes-----	35	Very limited Low strength	1.00	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63
		Slope	0.63	Cutbanks cave	0.10		
		Shrink-swell	0.50				
		Frost action	0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ByE: Buse-----	50	Very limited Slope Shrink-swell Frost action Content of large stones Low strength	1.00 0.50 0.50 0.48 0.22	Very limited Slope Content of large stones Cutbanks cave	1.00 0.48 0.10	Very limited Slope Content of large stones	1.00 1.00
Barnes-----	35	Very limited Slope Low strength Frost action	1.00 0.78 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope Content of large stones	1.00 0.46
BzE: Buse-----	50	Very limited Slope Low strength Shrink-swell Frost action	1.00 0.78 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Langhei-----	40	Very limited Slope Low strength Frost action	1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Ca: Camtown-----	55	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Very limited Sodium content	1.00
Turton-----	30	Somewhat limited Low strength Shrink-swell Frost action	0.78 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Very limited Sodium content Droughty	1.00 0.76
Cf: Cavour-----	55	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.47 0.10 0.03	Very limited Sodium content Droughty	1.00 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ferney-----	35	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.47	Very limited Sodium content	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
		Frost action	0.50	Too clayey	0.03		
Co: Colvin-----	85	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Cutbanks cave	0.10	Salinity	1.00
		Low strength	1.00				
		Shrink-swell	0.50				
Cr: Cresbard-----	60	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50	Too clayey	0.03		
Cavour-----	30	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.47	Very limited Sodium content	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
		Frost action	0.50	Too clayey	0.03		
Cs: Cresbard-----	40	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50	Too clayey	0.03		
Cavour-----	30	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.47	Very limited Sodium content	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
		Frost action	0.50	Too clayey	0.03		

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Heil-----	20	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Droughty	1.00
		Shrink-swell	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Ponding	1.00	Sodium content	1.00
		Low strength	1.00	Too clayey	0.72	Ponding	1.00
		Ponding	1.00				
Ct: Crossplain-----	60	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Flooding	1.00	Flooding	0.80	Depth to saturated zone	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	1.00				
		Depth to saturated zone	1.00				
Tetonka-----	30	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Ponding	1.00	Ponding	1.00
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Ponding	1.00				
Da: Davis-----	55	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.61	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
		Flooding	0.40				
Northville-----	35	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.61	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50	Too clayey	0.03		
		Flooding	0.40				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Db: Davison-----	85	Very limited Frost action Shrink-swell	1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.99 0.10	Not limited	
Dd: Davison-----	50	Very limited Frost action Shrink-swell	1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.99 0.10	Not limited	
Tetonka-----	40	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Ponding	1.00	Ponding	1.00
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Ponding	1.00				
DeA: Delmont-----	55	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.68
Ene-----	35	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Dk: Dimo-----	85	Very limited Low strength Shrink-swell Frost action Flooding	1.00 0.50 0.50 0.40	Very limited Cutbanks cave Depth to saturated zone	1.00 0.61	Not limited	
Dm: Dimo-----	55	Very limited Low strength Shrink-swell Frost action Flooding Depth to saturated zone	1.00 0.50 0.50 0.40 0.03	Very limited Cutbanks cave Depth to saturated zone	1.00 1.00	Somewhat limited Depth to saturated zone	0.03

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Grat-----	30	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Low strength	1.00	Cutbanks cave	1.00	Ponding	1.00
		Shrink-swell	1.00	Ponding	1.00		
		Depth to saturated zone	1.00	Too clayey	0.03		
		Ponding	1.00				
DoA: Doland-----	50	Somewhat limited Low strength	0.78	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Frost action	0.50	Cutbanks cave	0.10		
Embden-----	30	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
				Depth to saturated zone	0.61		
Dq: Dovecreek-----	90	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50				
		Flooding	0.40				
Dr: Dovray-----	90	Very limited Ponding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Too clayey	0.50	Too clayey	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	1.00				
Du: Dudley-----	55	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Very limited Sodium content	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10	Droughty	0.98
		Frost action	0.50	Too clayey	0.03		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Jerauld-----	35	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.47	Very limited Droughty	1.00
		Low strength	1.00	Too clayey	0.28	Sodium content	1.00
		Frost action	0.50	Cutbanks cave	0.10		
Dx: Durrstein-----	85	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Flooding	1.00	Flooding	0.80	Sodium content	1.00
		Shrink-swell	1.00	Too clayey	0.28	Droughty	1.00
		Depth to saturated zone	1.00	Cutbanks cave	0.10	Depth to saturated zone	1.00
		Low strength	1.00			Salinity	1.00
Ea: Eckman-----	85	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
EcA: Eckman-----	50	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Gardena-----	40	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.61	Not limited	
				Cutbanks cave	0.10		
EcB: Eckman-----	60	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Gardena-----	30	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.61	Not limited	
				Cutbanks cave	0.10		
EdB: Eckman-----	60	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Zell-----	30	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Frost action	0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EeB: Edgeley-----	85	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Shrink-swell Frost action	0.50 0.50	Cutbanks cave	0.10		
EeC: Edgeley-----	85	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Shrink-swell Frost action	0.50 0.50	Cutbanks cave	0.10		
EeD: Edgeley-----	85	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00	Depth to soft bedrock	0.42	Depth to bedrock	0.42
		Shrink-swell Frost action	0.50 0.50	Cutbanks cave	0.10		
EgA: Egeland-----	50	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
Embden-----	40	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.61	Not limited	
EgB: Egeland-----	50	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
Embden-----	35	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.61	Not limited	
Ek: Elsmere-----	85	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Somewhat limited Depth to saturated zone	0.03
		Depth to saturated zone	0.03	Depth to saturated zone	1.00	Droughty	0.01

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EmE: Ethan-----	50	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Betts-----	40	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
EnD: Ethan-----	55	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Hand-----	35	Somewhat limited Slope Shrink-swell Frost action Low strength	0.63 0.50 0.50 0.22	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
Er: Exline-----	50	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 1.00 0.12	Very limited Droughty Sodium content	1.00 1.00
Aberdeen-----	25	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Not limited	
Nahon-----	20	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Very limited Sodium content Droughty	1.00 0.97

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Et: Exline-----	50	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 1.00 0.12	Very limited Droughty Sodium content	1.00 1.00
Aberdeen-----	25	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Not limited	
Nahon-----	20	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Very limited Sodium content Droughty	1.00 0.97
Ew: Exline-----	50	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 1.00 0.12	Very limited Droughty Sodium content	1.00 1.00
Heil-----	40	Very limited Frost action Shrink-swell Depth to saturated zone Low strength Ponding	1.00 1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Cutbanks cave Ponding Too clayey	1.00 1.00 1.00 1.00 0.72	Very limited Droughty Depth to saturated zone Sodium content Ponding	1.00 1.00 1.00 1.00
Ex: Exline-----	50	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 1.00 0.12	Very limited Droughty Sodium content	1.00 1.00

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Heil-----	40	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Droughty	1.00
		Shrink-swell	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Ponding	1.00	Sodium content	1.00
		Low strength	1.00	Too clayey	0.72	Ponding	1.00
		Ponding	1.00				
EyA: Exline-----	45	Very limited Shrink-swell	1.00	Very limited Cutbanks cave	1.00	Very limited Droughty	1.00
		Low strength	1.00	Depth to saturated zone	0.47	Sodium content	1.00
		Frost action	0.50	Too clayey	0.12		
Putney-----	40	Very limited Low strength	1.00	Very limited Cutbanks cave	1.00	Not limited	
		Shrink-swell	0.50	Depth to saturated zone	0.15		
		Frost action	0.50				
Fa: Farmsworth-----	50	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Very limited Droughty	1.00
		Low strength	1.00	Too clayey	0.28	Sodium content	1.00
		Frost action	0.50	Cutbanks cave	0.10	Depth to saturated zone	0.03
		Flooding	0.40				
		Depth to saturated zone	0.03				
Durrstein-----	35	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Flooding	1.00	Flooding	0.80	Sodium content	1.00
		Shrink-swell	1.00	Too clayey	0.28	Droughty	1.00
		Depth to saturated zone	1.00	Cutbanks cave	0.10	Depth to saturated zone	1.00
		Low strength	1.00			Salinity	1.00

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Fe: Ferney-----	50	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Very limited Sodium content	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
		Frost action	0.50	Too clayey	0.03		
Heil-----	40	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Droughty	1.00
		Shrink-swell	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Ponding	1.00	Sodium content	1.00
		Low strength	1.00	Too clayey	0.72	Ponding	1.00
		Ponding	1.00				
Ff: Forestburg-----	60	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
				Depth to saturated zone	0.90		
Elsmere-----	30	Very limited Frost action	1.00	Very limited Cutbanks cave	1.00	Somewhat limited Depth to saturated zone	0.19
		Depth to saturated zone	0.19	Depth to saturated zone	1.00	Droughty	0.01
Fh: Forestburg-----	45	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
				Depth to saturated zone	0.90		
Elsmere-----	25	Very limited Frost action	1.00	Very limited Cutbanks cave	1.00	Somewhat limited Depth to saturated zone	0.19
		Depth to saturated zone	0.19	Depth to saturated zone	1.00	Droughty	0.01
Toko-----	20	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Ponding	1.00	Ponding	1.00
		Ponding	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
FmA: Forman-----	50	Somewhat limited Low strength	0.78	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Aastad-----	40	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.61	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
FmB: Forman-----	60	Somewhat limited Low strength	0.78	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Aastad-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.61	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
FnC: Forman-----	55	Somewhat limited Low strength	0.78	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
Buse-----	35	Somewhat limited Low strength	0.78	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
FrB: Forman-----	50	Somewhat limited Low strength	0.78	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Buse-----	25	Somewhat limited Low strength	0.78	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Aastad-----	20	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.61	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
FrC: Forman-----	45	Somewhat limited Low strength	0.78	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
Buse-----	30	Somewhat limited Low strength	0.78	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
Aastad-----	20	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.61	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
FsA: Forman-----	55	Somewhat limited Low strength	0.78	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Cresbard-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50	Too clayey	0.03		
FsB: Forman-----	60	Somewhat limited Low strength	0.78	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Cresbard-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50	Too clayey	0.03		

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
FtA: Forman-----	45	Somewhat limited Low strength	0.78	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell Frost action	0.50 0.50	Cutbanks cave	0.10		
Cresbard-----	25	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell Frost action	1.00 0.50	Cutbanks cave Too clayey	0.10 0.03		
Tonka-----	20	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Ponding	1.00	Ponding	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	1.00				
		Ponding	1.00				
Ga: Gardena-----	90	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.61	Not limited	
				Cutbanks cave	0.10		
Gd: Gardena-----	55	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.61	Not limited	
				Cutbanks cave	0.10		
Glyndon-----	35	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone	0.90	Not limited	
				Cutbanks cave	0.10		
Ge: Gardena-----	50	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.61	Not limited	
				Cutbanks cave	0.10		

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Turton-----	35	Somewhat limited Low strength	0.78	Somewhat limited Depth to saturated zone	0.47	Very limited Sodium content	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10	Droughty	0.86
		Frost action	0.50				
GgA: Great Bend-----	90	Very limited Low strength	1.00	Very limited Cutbanks cave	1.00	Not limited	
		Frost action	0.50	Depth to saturated zone	0.15		
GnA: Great Bend-----	50	Very limited Low strength	1.00	Very limited Cutbanks cave	1.00	Not limited	
		Frost action	0.50	Depth to saturated zone	0.15		
Beotia-----	40	Very limited Low strength	1.00	Very limited Cutbanks cave	1.00	Not limited	
		Shrink-swell	0.50	Depth to saturated zone	0.15		
		Frost action	0.50				
GnB: Great Bend-----	60	Very limited Low strength	1.00	Very limited Cutbanks cave	1.00	Not limited	
		Frost action	0.50	Depth to saturated zone	0.15		
Beotia-----	30	Very limited Low strength	1.00	Very limited Cutbanks cave	1.00	Not limited	
		Shrink-swell	0.50	Depth to saturated zone	0.15		
		Frost action	0.50				
GoA: Great Bend-----	50	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Frost action	0.50	Cutbanks cave	0.10		
Beotia-----	40	Very limited Low strength	1.00	Very limited Cutbanks cave	1.00	Not limited	
		Shrink-swell	0.50	Depth to saturated zone	0.15		
		Frost action	0.50				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
GpA: Great Bend-----	50	Very limited Low strength Frost action	1.00 0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	
Putney-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	
GpB: Great Bend-----	50	Very limited Low strength Frost action	1.00 0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	
Putney-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	
GtB: Great Bend-----	60	Very limited Low strength Frost action	1.00 0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	
Zell-----	30	Very limited Low strength Frost action	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
GtC: Great Bend-----	50	Very limited Low strength Frost action	1.00 0.50	Very limited Cutbanks cave	1.00	Not limited	
Zell-----	40	Very limited Low strength Frost action	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
GzC: Great Bend-----	45	Very limited Low strength Frost action	1.00 0.50	Very limited Cutbanks cave	1.00	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Zell-----	25	Very limited Low strength Frost action	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Huffton-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
HaA: Hamerly-----	85	Very limited Frost action Low strength Shrink-swell	1.00 0.78 0.50	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Not limited	
Hb: Hamerly-----	50	Very limited Frost action Low strength Shrink-swell	1.00 0.78 0.50	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Not limited	
Tonka-----	40	Very limited Depth to saturated zone Frost action Low strength Shrink-swell Ponding	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Cutbanks cave	1.00 1.00 0.10	Very limited Depth to saturated zone Ponding	1.00 1.00
HcA: Hand-----	50	Somewhat limited Shrink-swell Frost action Low strength	0.50 0.50 0.22	Somewhat limited Depth to saturated zone Cutbanks cave	0.15 0.10	Not limited	
Bonilla-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HcB: Hand-----	60	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Frost action	0.50	Cutbanks cave	0.10		
		Low strength	0.22				
Bonilla-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
HdA: Hand-----	50	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Frost action	0.50	Cutbanks cave	0.10		
		Low strength	0.22				
Carthage-----	40	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.82	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
He: Hand-----	45	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Frost action	0.50	Cutbanks cave	0.10		
		Low strength	0.22				
Carthage-----	25	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.82	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Overshue-----	20	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Ponding	1.00	Ponding	1.00
		Ponding	1.00	Cutbanks cave	0.10		

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HfC: Hand-----	55	Somewhat limited Shrink-swell Frost action Low strength	0.50 0.50 0.22	Somewhat limited Cutbanks cave	0.10	Not limited	
Ethan-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
HgB: Hand-----	50	Somewhat limited Shrink-swell Frost action Low strength	0.50 0.50 0.22	Somewhat limited Depth to saturated zone Cutbanks cave	0.15 0.10	Not limited	
Ethan-----	25	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Bonilla-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
HgC: Hand-----	45	Somewhat limited Shrink-swell Frost action Low strength	0.50 0.50 0.22	Somewhat limited Cutbanks cave	0.10	Not limited	
Ethan-----	30	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Bonilla-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HhB: Hand-----	50	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Frost action	0.50	Cutbanks cave	0.10		
		Low strength	0.22				
Ethan-----	25	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
Carthage-----	20	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.82	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
HjB: Hand-----	45	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Frost action	0.50	Cutbanks cave	0.10		
		Low strength	0.22				
Talmo-----	35	Not limited		Very limited Cutbanks cave	1.00	Very limited Droughty	1.00
HjC: Hand-----	45	Somewhat limited Shrink-swell	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
		Frost action	0.50				
		Low strength	0.22				
Talmo-----	35	Not limited		Very limited Cutbanks cave	1.00	Very limited Droughty	1.00
Hk: Harmony-----	55	Very limited Low strength	1.00	Very limited Cutbanks cave	1.00	Not limited	
		Shrink-swell	1.00	Depth to saturated zone	0.47		
		Frost action	0.50	Too clayey	0.03		

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Aberdeen-----	35	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Not limited	
Hm: Harmony-----	55	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.03	Not limited	
Aberdeen-----	35	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Not limited	
Hn: Harmony-----	55	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.03	Not limited	
Beotia-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	
Ho: Harmony-----	55	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.03	Not limited	
Beotia-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	

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(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Hp: Harriet-----	90	Very limited Depth to saturated zone Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding Cutbanks cave Too clayey	1.00 0.60 0.10 0.03	Very limited Sodium content Depth to saturated zone Droughty Flooding	1.00 1.00 1.00 0.60
Hr: Heil-----	90	Very limited Frost action Shrink-swell Depth to saturated zone Low strength Ponding	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Cutbanks cave Ponding Too clayey	1.00 1.00 1.00 0.72	Very limited Droughty Depth to saturated zone Sodium content Ponding	1.00 1.00 1.00 1.00
HsA: Henkin-----	55	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
Blendon-----	35	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	
HsB: Henkin-----	60	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
Blendon-----	30	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.15	Not limited	
HtB: Houdek-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.15 0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ethan-----	25	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Prosper-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
HtC: Houdek-----	45	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Ethan-----	30	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Prosper-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
HuA: Houdek-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.15 0.10	Not limited	
Prosper-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
HuB: Houdek-----	60	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.15 0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Prosper-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
HwA: Houdek-----	55	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Stickney-----	35	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
HxA: Houdek-----	45	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Stickney-----	25	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Tetonka-----	20	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Ponding	1.00	Ponding	1.00
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Ponding	1.00				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Hy: Hoven-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Droughty	1.00
		Shrink-swell	1.00	Ponding	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Too clayey	0.28	Sodium content	1.00
		Low strength	1.00	Cutbanks cave	0.10	Ponding	1.00
		Ponding	1.00				
Ie: Ipage-----	45	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.64
				Depth to saturated zone	0.47		
Els-----	25	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.43
		Depth to saturated zone	0.03	Depth to saturated zone	1.00	Depth to saturated zone	0.03
Shue-----	20	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Cutbanks cave	1.00	Ponding	1.00
		Ponding	1.00	Ponding	1.00		
Jh: Jerauld-----	50	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Very limited Droughty	1.00
		Low strength	1.00	Too clayey	0.28	Sodium content	1.00
		Frost action	0.50	Cutbanks cave	0.10		
Hoven-----	40	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Droughty	1.00
		Shrink-swell	1.00	Ponding	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Too clayey	0.28	Sodium content	1.00
		Low strength	1.00	Cutbanks cave	0.10	Ponding	1.00
		Ponding	1.00				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
KaA: Kranzburg-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.15 0.10	Not limited	
Brookings-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.61 0.10	Not limited	
KbB: Kranzburg-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.15 0.10	Not limited	
Brookings-----	30	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.61 0.10	Not limited	
Buse-----	25	Somewhat limited Low strength Shrink-swell Frost action	0.78 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
KcA: Kranzburg-----	55	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.15 0.10	Not limited	
Cresbard-----	30	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.47 0.10 0.03	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
KtA: Kranzburg-----	45	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.15 0.10	Not limited	
Cresbard-----	25	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.47 0.10 0.03	Not limited	
Tonka-----	20	Very limited Depth to saturated zone Frost action Low strength Shrink-swell Ponding	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Cutbanks cave	1.00 1.00 0.10	Very limited Depth to saturated zone Ponding	1.00 1.00
KzB: Kranzburg-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.15 0.10	Not limited	
Zell-----	30	Very limited Low strength Frost action	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Aastad-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.61 0.10	Not limited	
La: La Prairie-----	85	Very limited Low strength Shrink-swell Frost action Flooding	1.00 0.50 0.50 0.40	Very limited Cutbanks cave Depth to saturated zone	1.00 0.47	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Lc: La Prairie-----	50	Very limited Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Cutbanks cave Flooding Depth to saturated zone	1.00 0.60 0.47	Somewhat limited Flooding	0.60
Holmquist-----	40	Very limited Flooding Depth to saturated zone Shrink-swell Frost action Low strength	1.00 1.00 0.50 0.50 0.22	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.80	Very limited Flooding Depth to saturated zone	1.00 1.00
Ld: Ladelle-----	90	Very limited Low strength Shrink-swell Frost action Flooding	1.00 0.50 0.50 0.40	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
Le: Ladelle-----	85	Very limited Frost action Flooding Low strength Shrink-swell	1.00 1.00 1.00 0.50	Somewhat limited Flooding Depth to saturated zone Cutbanks cave	0.80 0.47 0.10	Very limited Flooding	1.00
Lk: Lamo-----	90	Very limited Frost action Flooding Low strength Shrink-swell Depth to saturated zone	1.00 1.00 1.00 0.50 0.19	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Flooding Depth to saturated zone	0.60 0.19

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Lm: Lamoure-----	85	Very limited Frost action Flooding Low strength Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.80 0.10	Very limited Flooding Depth to saturated zone	1.00 1.00
Ln: Lawet-----	85	Very limited Frost action Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.75 0.50	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.60	Somewhat limited Depth to saturated zone Flooding	0.75 0.60
Lo: Lawet-----	90	Very limited Depth to saturated zone Frost action Flooding Ponding Shrink-swell	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Cutbanks cave Ponding Flooding	1.00 1.00 1.00 0.60	Very limited Depth to saturated zone Ponding Flooding	1.00 1.00 0.60
Lp: Lawet-----	60	Very limited Frost action Flooding Depth to saturated zone Shrink-swell	1.00 1.00 0.75 0.50	Very limited Depth to saturated zone Cutbanks cave Flooding	1.00 1.00 0.60	Somewhat limited Depth to saturated zone Flooding	0.75 0.60
Davison-----	30	Very limited Frost action Shrink-swell	1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.99 0.10	Not limited	
LrA: Lehr-----	55	Somewhat limited Shrink-swell	0.50	Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.46

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bowdle-----	35	Not limited		Very limited Cutbanks cave	1.00	Not limited	
LrB: Lehr-----	60	Somewhat limited Shrink-swell	0.50	Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.46
Bowdle-----	30	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Ls: Lowe-----	85	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	1.00	Cutbanks cave	1.00	Flooding	0.60
		Depth to saturated zone	1.00	Flooding	0.60		
		Low strength	1.00				
		Shrink-swell	0.50				
Lt: Ludden-----	85	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Flooding	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
		Low strength	1.00	Flooding	0.80	Too clayey	1.00
		Shrink-swell	1.00	Too clayey	0.50		
		Depth to saturated zone	1.00				
Lu: Ludden-----	90	Very limited Ponding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Frost action	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	0.80	Too clayey	1.00
		Low strength	1.00	Too clayey	0.50		

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Lw: Ludden-----	85	Very limited Ponding Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Cutbanks cave Flooding Too clayey	1.00 1.00 1.00 0.80 0.50	Very limited Ponding Flooding Depth to saturated zone Too clayey	1.00 1.00 1.00 1.00
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
MaC: Maddock-----	50	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Egeland-----	35	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
MdA: Max-----	50	Somewhat limited Low strength Shrink-swell Frost action	0.78 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Arnegard-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
MdB: Max-----	60	Somewhat limited Low strength Shrink-swell Frost action	0.78 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Arnegard-----	30	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MgB: Max-----	45	Somewhat limited Low strength Shrink-swell Frost action	0.78 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Arnegard-----	30	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
Zahl-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
MnB: Max-----	40	Somewhat limited Low strength Shrink-swell Frost action	0.78 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Niobell-----	30	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
Noonan-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Very limited Droughty	1.00
MxC: Max-----	45	Somewhat limited Low strength Shrink-swell Frost action	0.78 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Zahl-----	30	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Arnegard-----	20	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
My: Miranda-----	50	Very limited Low strength	1.00	Very limited Depth to saturated zone	1.00	Very limited Sodium content	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10	Droughty	1.00
		Frost action	0.50				
Heil-----	40	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Droughty	1.00
		Shrink-swell	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Ponding	1.00	Sodium content	1.00
		Low strength	1.00	Too clayey	0.72	Ponding	1.00
		Ponding	1.00				
Mz: Moritz-----	55	Very limited Frost action	1.00	Very limited Cutbanks cave	1.00	Somewhat limited Depth to saturated zone	0.03
		Low strength	1.00	Depth to saturated zone	1.00		
		Shrink-swell	0.50				
		Flooding	0.40				
		Depth to saturated zone	0.03				
Lowe-----	35	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	1.00	Cutbanks cave	1.00	Flooding	0.60
		Depth to saturated zone	1.00	Flooding	0.60		
		Low strength	1.00				
		Shrink-swell	0.50				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Na: Nahon-----	45	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Very limited Sodium content Droughty	1.00 0.97
Aberdeen-----	30	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Not limited	
Exline-----	20	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 1.00 0.12	Very limited Droughty Sodium content	1.00 1.00
Nb: Nahon-----	45	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Very limited Sodium content Droughty	1.00 0.97
Aberdeen-----	30	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 0.47 0.12	Not limited	
Exline-----	20	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Very limited Cutbanks cave Depth to saturated zone Too clayey	1.00 1.00 0.12	Very limited Droughty Sodium content	1.00 1.00
Nc: Niobell-----	60	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Noonan-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Very limited Droughty	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Nd: Niobell-----	40	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
Noonan-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Very limited Droughty	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Heil-----	20	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Droughty	1.00
		Shrink-swell	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Ponding	1.00	Sodium content	1.00
		Low strength	1.00	Too clayey	0.72	Ponding	1.00
		Ponding	1.00				
NeA: Niobell-----	40	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
Noonan-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Very limited Droughty	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Max-----	20	Somewhat limited Low strength	0.78	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Nm: Noonan-----	55	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Very limited Droughty	1.00
Miranda-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Very limited Sodium content Droughty	1.00 1.00
Nr: Northville-----	60	Very limited Low strength Shrink-swell Frost action Flooding	1.00 0.50 0.50 0.40	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.61 0.10 0.03	Not limited	
Farmsworth-----	30	Very limited Shrink-swell Low strength Frost action Flooding Depth to saturated zone	1.00 1.00 0.50 0.40 0.03	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Droughty Sodium content Depth to saturated zone	1.00 1.00 0.03
Nv: Northville-----	40	Very limited Low strength Shrink-swell Frost action Flooding	1.00 0.50 0.50 0.40	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.61 0.10 0.03	Not limited	
Farmsworth-----	30	Very limited Shrink-swell Low strength Frost action Flooding Depth to saturated zone	1.00 1.00 0.50 0.40 0.03	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Droughty Sodium content Depth to saturated zone	1.00 1.00 0.03

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Hoven-----	20	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Droughty	1.00
		Shrink-swell	1.00	Ponding	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Too clayey	0.28	Sodium content	1.00
		Low strength	1.00	Cutbanks cave	0.10	Ponding	1.00
		Ponding	1.00				
Ov: Overshue-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Ponding	1.00	Ponding	1.00
		Ponding	1.00	Cutbanks cave	0.10		
Pa: Parnell-----	90	Very limited Ponding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Too clayey	0.28		
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	1.00				
Pc: Parshall-----	85	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
PeA: Peever-----	85	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50	Too clayey	0.03		
PgB: Peever-----	60	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50	Too clayey	0.03		
Buse-----	30	Somewhat limited Low strength	0.78	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
PoA: Peever-----	60	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.15	Not limited	
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50	Too clayey	0.03		
Cavour-----	30	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.47	Very limited Sodium content	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
		Frost action	0.50	Too clayey	0.03		
Pp: Pits, Gravel And Sand-----	90	Not rated		Not rated		Not rated	
Pr: Playmoor-----	85	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Flooding	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
		Low strength	1.00	Flooding	0.80	Salinity	1.00
		Depth to saturated zone	1.00				
		Shrink-swell	0.50				
Py: Playmoor-----	50	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Flooding	1.00	Cutbanks cave	1.00	Depth to saturated zone	1.00
		Low strength	1.00	Flooding	0.80	Salinity	1.00
		Depth to saturated zone	1.00				
		Shrink-swell	0.50				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Lamoure-----	40	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Flooding	1.00	Flooding	0.80	Depth to saturated zone	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Depth to saturated zone	1.00				
		Shrink-swell	0.50				
Ra: Ranslo-----	85	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Sodium content	1.00
		Flooding	1.00	Flooding	0.60	Droughty	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10	Flooding	0.60
		Low strength	1.00	Too clayey	0.03	Depth to saturated zone	0.19
		Depth to saturated zone	0.19				
Re: Ranslo-----	50	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Sodium content	1.00
		Flooding	1.00	Flooding	0.60	Droughty	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10	Flooding	0.60
		Low strength	1.00	Too clayey	0.03	Depth to saturated zone	0.19
		Depth to saturated zone	0.19				
Harriet-----	40	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Sodium content	1.00
		Frost action	1.00	Flooding	0.60	Depth to saturated zone	1.00
		Flooding	1.00	Cutbanks cave	0.10	Droughty	1.00
		Low strength	1.00	Too clayey	0.03	Flooding	0.60
		Shrink-swell	0.50				
RfA: Renshaw-----	55	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.77
Fordville-----	35	Somewhat limited Low strength	0.78	Very limited Cutbanks cave	1.00	Not limited	
		Shrink-swell	0.50				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
RfB: Renshaw-----	60	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.77
Fordville-----	30	Somewhat limited Low strength Shrink-swell	0.78 0.50	Very limited Cutbanks cave	1.00	Not limited	
So: Southam-----	90	Very limited Ponding Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Cutbanks cave Too clayey	1.00 1.00 0.10 0.03	Very limited Ponding Depth to saturated zone Salinity	1.00 1.00 0.13
St: Stickney-----	60	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
Dudley-----	30	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.47 0.10 0.03	Very limited Sodium content Droughty	1.00 0.96
Su: Stickney-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
Dudley-----	30	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.47 0.10 0.03	Very limited Sodium content Droughty	1.00 0.96

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Hoven-----	20	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Droughty	1.00
		Shrink-swell	1.00	Ponding	1.00	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Too clayey	0.28	Sodium content	1.00
		Low strength	1.00	Cutbanks cave	0.10	Ponding	1.00
		Ponding	1.00				
Sw: Straw-----	85	Very limited Frost action	1.00	Somewhat limited Flooding	0.80	Very limited Flooding	1.00
		Flooding	1.00	Depth to saturated zone	0.47		
				Cutbanks cave	0.10		
Sx: Straw-----	90	Somewhat limited Frost action	0.50	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Flooding	0.40	Cutbanks cave	0.10		
TbE: Talmo-----	45	Very limited Slope	1.00	Very limited Cutbanks cave	1.00	Very limited Droughty	1.00
				Slope	1.00	Slope	1.00
Ethan-----	35	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50				
		Frost action	0.50				
Te: Tetonka-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Ponding	1.00	Ponding	1.00
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Ponding	1.00				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Tk: Toko-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Ponding	1.00	Ponding	1.00
		Ponding	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50				
Tm: Toko-----	90	Very limited Ponding	1.00	Very limited Ponding	1.00	Very limited Ponding	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50				
Tn: Tonka-----	90	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Ponding	1.00	Ponding	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	1.00				
		Ponding	1.00				
To: Tonka-----	60	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Low strength	1.00	Ponding	1.00	Ponding	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Depth to saturated zone	1.00				
		Ponding	1.00				
Rimlap-----	30	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Ponding	1.00
		Low strength	1.00	Ponding	1.00	Depth to saturated zone	0.78
		Shrink-swell	1.00	Too clayey	0.12		
		Ponding	1.00	Cutbanks cave	0.10		
		Depth to saturated zone	0.78				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Us: Udorthents, Silty---	90	Somewhat limited Shrink-swell Frost action Low strength	0.50 0.50 0.22	Somewhat limited Cutbanks cave	0.10	Not limited	
Va: Vallars-----	60	Very limited Frost action Low strength Depth to saturated zone Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Very limited Depth to saturated zone	1.00
Hamerly-----	30	Very limited Frost action Low strength Shrink-swell	1.00 0.78 0.50	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Not limited	
VgA: Vang-----	85	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
W: Water (less Than 40 Acres)-----	100	Not rated		Not rated		Not rated	
WaA: Williams-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Bowbells-----	40	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
WaB: Williams-----	60	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bowbells-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
WbA: Williams-----	45	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
Bowbells-----	25	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Tonka-----	20	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Low strength	1.00	Ponding	1.00	Ponding	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Depth to saturated zone	1.00				
		Ponding	1.00				
WbB: Williams-----	50	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
Bowbells-----	25	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Tonka-----	20	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Low strength	1.00	Ponding	1.00	Ponding	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Depth to saturated zone	1.00				
		Ponding	1.00				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WcA: Williams-----	55	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Niobell-----	30	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
WcB: Williams-----	60	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Niobell-----	30	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
WdA: Williams-----	45	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Niobell-----	25	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
Tonka-----	20	Very limited Frost action Low strength Shrink-swell Depth to saturated zone Ponding	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Cutbanks cave	1.00 1.00 0.10	Very limited Depth to saturated zone Ponding	1.00 1.00

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WhD: Williams-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Vida-----	40	Somewhat limited Slope Shrink-swell Frost action Low strength	0.63 0.50 0.50 0.22	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope Content of large stones	0.63 0.01
WmB: Williams-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Zahl-----	25	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Bowbells-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
WmC: Williams-----	45	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Zahl-----	30	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Bowbells-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.15 0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Wn: Winship-----	60	Very limited Frost action Low strength	1.00 1.00	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Not limited	
Tonka-----	30	Very limited Depth to saturated zone Frost action Low strength Shrink-swell Ponding	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Cutbanks cave	1.00 1.00 0.10	Very limited Depth to saturated zone Ponding	1.00 1.00
Wo: Winship-----	60	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Not limited	
Tonka-----	30	Very limited Depth to saturated zone Frost action Low strength Shrink-swell Ponding	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Cutbanks cave	1.00 1.00 0.10	Very limited Depth to saturated zone Ponding	1.00 1.00
Ws: Woonsocket-----	50	Somewhat limited Shrink-swell Frost action	0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.61 0.10	Not limited	
Whitelake-----	35	Somewhat limited Shrink-swell Frost action	0.50 0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.61	Very limited Droughty	1.00
Wt: Worthing-----	90	Very limited Ponding Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ww: Worthing-----	90	Very limited Ponding Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00
ZaE: Zahill-----	85	Very limited Slope Low strength Shrink-swell Frost action	1.00 0.78 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope Content of large stones	1.00 0.01
ZbC: Zahl-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Max-----	40	Somewhat limited Low strength Shrink-swell Frost action	0.78 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
ZbD: Zahl-----	55	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
Max-----	35	Somewhat limited Low strength Slope Shrink-swell Frost action	0.78 0.63 0.50 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
ZgD: Zell-----	55	Very limited Slope Low strength Frost action	1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00

Section II
Soil and Site Information

Building Site Development
Spink County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Great Bend-----	35	Very limited Low strength Frost action	1.00 0.50	Very limited Cutbanks cave	1.00	Not limited	